In the Claims:

Claims 1-8 (canceled)

9. (Currently amended) A pressure measurement assembly comprising:

a pressure-resistant cylindrical vessel that is transparent to microwave radiation;

a cap assembly for closing said vessel;

a pressure transducer external to said vessel and said ~~closure~~ cap assembly;

a needle for extending from said transducer, through said ~~closure~~ cap assembly and into said vessel, and for providing pressure communication between the interior of said vessel and said transducer; and

a collet for engaging and maintaining said transducer, said needle, said ~~closure~~ cap assembly and said vessel in linear relationship by exerting a radial force inwardly against said cylindrical vessel and an axial force linearly against said cap assembly so that the pressure in said vessel is transmitted to said transducer while said vessel is in use.

Claims 10-15 (canceled)

16. (Currently amended) A pressure measurement assembly comprising:

a pressure-resistant cylindrical vessel that is transparent to microwave radiation;

a cap assembly for closing said vessel, said cap assembly comprising a mouth having a metal perimeter for gripping said vessel and a penetrable septum surrounded by said metal perimeter;

a pressure transducer external to said vessel and said ~~closure~~ cap assembly;

a needle for extending from said transducer, through said ~~closure~~ cap assembly and into said vessel, and for providing pressure communication between the interior of said vessel and said transducer; and

a collet for engaging and maintaining said transducer, said needle, said ~~closure~~ cap assembly and said vessel in linear relationship by exerting a radial force inwardly against said cylindrical vessel and an axial force linearly against said cap assembly so that the pressure in said vessel is transmitted to said transducer while said vessel is in use;

wherein said penetrable septum may receive said needle therethrough while maintaining a pressure seal to said vessel, said septum formed of a material selected from the group consisting of butyl rubber and siloxane polymers;

wherein said vessel further comprises a means for securing said septum against pressure in said vessel; and

wherein said collet includes means for urging said septum towards said vessel while concurrently urging said vessel towards said transducer.

Claims 17-21 (canceled)

THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK